Practical Model-Based Testing: A Tools Approach

Von Mark Utting, Bruno Legeard
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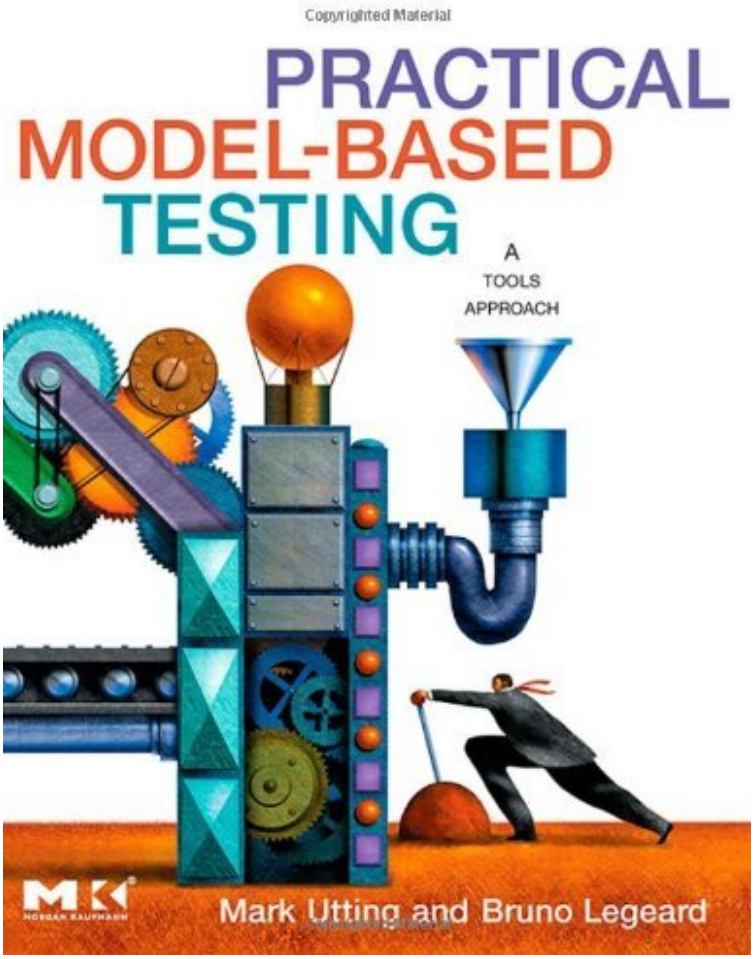

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Von Mark Utting, Bruno Legeard : Practical Model-Based Testing: A Tools Approach before purchasing it in order to gage whether or not it would be worth my time, and all praised Practical Model-Based Testing: A Tools Approach:

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. less would have been moreVon AlgorithmenfreundThe book gives a broad overview over model based testing covering the areas of modelling, test selection, and test execution against systems under test, e.g. via test script derivation or harnessing techniques. Several modelling techniques are discussed, thereby several kinds of state machines, pre/post models and UML transition based models.For me, there are to be found too many examples covering too many abstract techniques (modelling languages, programming languages, tools etc.) whereas the explanations are not always helpful and even small examples are often only sketched, cryptic, very hard to read and to understand. Within that multitude of examples the key points and especially the practical aspects of model based testing are a bit drowned and

hard to grasp. The sound practical feeling, especially for the connection between model and reality during test execution, is for the beginner - at least for me - a bit missing. Partially, concepts, e.g. for test selection, are rather reference and notion collections giving very theoretical aspects with rather philosophical ambition. Depth is - at least partially - replaced by breadth. One might also say, a collection of plenty of stuff opening a rather academic view onto a very broad area given, alas, with insufficient didactic skills. On the other hand, one thing becomes very clear from the book: model based testing is not only no cure-all but very, very quickly meets severe applicability limitations when having only a very slight bit of more complexity in the system under observation.For a practical start into the topic the book is unfortunately of only restricted value.

KurzbeschreibungPractical Model-Based Testing gives a practical introduction to model-based testing, showing how to write models for testing purposes and how to use model-based testing tools to generate test suites. It is aimed at testers and software developers who wish to use model-based testing, rather than at tool-developers or academics. The book focuses on the mainstream practice of functional black-box testing and covers different styles of models, especially transition-based models (UML state machines) and pre/post models (UML/OCL specifications and B notation). The steps of applying model-based testing are demonstrated on examples and case studies from a variety of software domains, including embedded software and information systems. From this book you will learn: The basic principles and terminology of model-based testingHow model-based testing differs from other testing processesHow model-based testing fits into typical software lifecycles such as agile methods and the Unified ProcessThe benefits and limitations of model-based testing, its cost effectiveness and how it can reduce time-to-marketA step-by-step process for applying model-based testingHow to write good models for model-based testingHow to use a variety of test selection criteria to control the tests that are generated from your modelsHow model-based testing can connect to existing automated test execution platforms such as Mercury Test Director, Java JUnit, and proprietary test execution environmentsPresents the basic principles and terminology of model-based testingShows how model-based testing fits into the software lifecycle, its cost-effectiveness, and how it can reduce time to marketOffers guidance on how to use different kinds of modeling techniques, useful test generation strategies, how to apply model-based testing techniques to real applications using case studiesPressestimmen"This topic is hot...and both authors are well known experts in the community of model-based testing." --Wolfgang Grieskamp, Microsoft Research-This topic is hot...and both authors are well known experts in the community of model-based testing.- --Wolfgang Grieskamp, Microsoft ResearchKurzbeschreibungPractical Model-Based Testing gives a practical introduction to model-based testing, showing how to write models for testing purposes and how to use model-based testing tools to generate test suites. It is aimed at testers and software developers who wish to use model-based testing, rather than at tool-developers or academics. The book focuses on the mainstream practice of functional black-box testing and covers different styles of models, especially transition-based models (UML state machines) and pre/post models (UML/OCL specifications and B notation). The steps of applying model-based testing are demonstrated on examples and case studies from a variety of software domains, including embedded software and information systems. From this book you will learn: The basic principles and terminology of model-based testingHow model-based testing differs from other testing processesHow model-based testing fits into typical software lifecycles such as agile methods and the Unified ProcessThe benefits and limitations of model-based testing, its cost effectiveness and how it can reduce time-to-marketA step-by-step process for applying model-based testingHow to write good models for model-based testingHow to use a variety of test selection criteria to control the tests that are generated from your modelsHow model-based testing can connect to existing automated test execution platforms such as Mercury Test Director, Java JUnit, and proprietary test execution environmentsPresents the basic principles and terminology of model-based testingShows how model-based testing fits into the software lifecycle, its cost-effectiveness, and how it can reduce time to marketOffers guidance on how to use different kinds of modeling techniques, useful test generation strategies, how to apply model-based testing techniques to real applications using case studies